

COMMUNICABLE DISEASE SUMMARY

1936 -- 1948



North Dakota. State Department of Health  
" Bismarck, North Dakota

WC  
16  
7N864c  
1948



C 28 Mar '50

|  | No. Cases | Rate per 100,000<br>Population | No. Deaths | Rate per 100,000<br>Population |
|--|-----------|--------------------------------|------------|--------------------------------|
|--|-----------|--------------------------------|------------|--------------------------------|

|            |      |       |     |     |
|------------|------|-------|-----|-----|
| 1936-1940* | 987  | 130.4 | 1.0 | 1.2 |
| 1941-1945* | 1023 | 136.2 | .8  | 1.1 |
| 1946       | 308  | 77.4  | -   | 0   |
| 1947       | 333  | 100.3 | -   | 0   |
| 1948       |      |       |     |     |

INTRODUCTION

The tables appearing in this report have been compiled for the purpose of giving a general summary of the incidence of some of the more common communicable diseases in the State of North Dakota in recent years.

These data include the average number of cases and deaths reported for two five-year periods from 1936 to 1945 inclusive, and for individual years from 1946 to 1948 inclusive. The 1948 death figures are provisional.

The tables also include number of cases by months of occurrence. Pneumonia and influenza have been grouped together due to the coding on the death certificates.

R. O. Saxvik, M.D.,  
State Health Officer

|            |     |      |     |     |
|------------|-----|------|-----|-----|
| 1936-1940* | 83  | 12.9 | 7.4 | 1.2 |
| 1941-1945* | 105 | 19.1 |     | 1.2 |
| 1946       | 84  | 15.7 | 7   | 1.3 |
| 1947       | 77  | 10.3 | 3   | 0.9 |
| 1948       | 33  | 2.9  | 6   | 1.1 |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | 6.2  | 5.3  | 6.0  | 3.4  | 3.4 | 3.0  | 8.2  | 9.3  | 6.1   | 11.2 | 10.2 | 8.3  |
| 1941-1945* | 14.2 | 4.3  | 5.3  | 5.1  | 4.0 | 4.2  | 7.0  | 9.5  | 7.5   | 9.2  | 15.4 | 22.0 |
| 1946       | 13   | 12   | 2    | 6    | 4   | 1    | 2    | 8    | 2     | 13   | 2    | 13   |
| 1947       | 3    | 4    | 7    | 2    | 5   | 1    | 3    | 3    | 8     | 3    | 9    | 9    |
| 1948       | 3    | 2    | 3    | 3    | 1   | 3    | 2    | 1    | 4     | 2    | 8    | 2    |

\* 5-year average



# CHICKENPOX

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 967              | 150.4                                  | 1.0               | .2                                     |
| 1941-1945* | 1025             | 186.0                                  | .8                | .1                                     |
| 1946       | 308              | 57.4                                   | -                 | 0                                      |
| 1947       | 553              | 100.2                                  | -                 | 0                                      |
| 1948       | 701              | 125.2                                  | -                 | 0                                      |

## Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | 138  | 94   | 93   | 82   | 107 | 64   | 32   | 13   | 14    | 75   | 112  | 139  |
| 1941-1945* | 166  | 130  | 112  | 93   | 90  | 53   | 29   | 11   | 8     | 66   | 118  | 142  |
| 1946       | 56   | 54   | 31   | 22   | 28  | 15   | 16   | 3    | 8     | 9    | 31   | 35   |
| 1947       | 22   | 27   | 64   | 53   | 50  | 32   | 3    | 6    | 10    | 39   | 74   | 173  |
| 1948       | 76   | 91   | 73   | 49   | 65  | 21   | 8    | 6    | 6     | 46   | 133  | 127  |

# DIPHTHERIA

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 83               | 12.9                                   | 7.4               | 1.2                                    |
| 1941-1945* | 105              | 19.1                                   | 6.8               | 1.2                                    |
| 1946       | 84               | 15.7                                   | 7                 | 1.3                                    |
| 1947       | 57               | 10.3                                   | 5                 | 0.9                                    |
| 1948       | 33               | 5.9                                    | 6                 | 1.1                                    |

## Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | 6.2  | 5.3  | 6.0  | 3.4  | 3.4 | 3.0  | 8.2  | 9.3  | 6.1   | 11.2 | 10.2 | 8.3  |
| 1941-1945* | 14.2 | 4.3  | 5.3  | 5.1  | 4.0 | 4.2  | 7.0  | 5.6  | 7.8   | 9.2  | 15.4 | 22.0 |
| 1946       | 13   | 12   | 9    | 6    | 4   | 1    | 2    | 8    | 2     | 13   | 2    | 12   |
| 1947       | 5    | 6    | 7    | 2    | 5   | 1    | 5    | 3    | 2     | 3    | 9    | 9    |
| 1948       | 3    | 2    | 3    | 3    | 1   | 3    | 2    | 1    | 4     | 2    | 8    | 2    |

\* 5-year average



DYSENTERY

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 5                | .8                                     | 5                 | .8                                     |
| 1941-1945* | 8                | 1.5                                    | 1.6               | .3                                     |
| 1946       | 6                | 1.1                                    | 6                 | 1.1                                    |
| 1947       | 34               | 6.2                                    | 3                 | 0.5                                    |
| 1948       | 59               | 10.5                                   | 1                 | 0.2                                    |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | 0    | 0    | 0    | .2   | 0   | .2   | 0    | .2   | 2.4   | .6   | 1.0  | 0    |
| 1941-1945* | .4   | .2   | 0    | .6   | .2  | .2   | .4   | .4   | 4.3   | .8   | .4   | 0    |
| 1946       | 0    | 4    | 0    | 0    | 0   | 2    | 0    | 0    | 0     | 0    | 0    | 0    |
| 1947       | 1    | 0    | 0    | 1    | 1   | 8    | 3    | 2    | 0     | 1    | 8    | 9    |
| 1948       | 6    | 14   | 24   | 14   | 0   | 0    | 1    | 0    | 0     | 0    | 0    | 0    |

ENCEPHALITIS

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 32               | 4.9                                    | 12                | 1.9                                    |
| 1941-1945* | 243              | 44.0                                   | 37.4              | 6.8                                    |
| 1946       | 14               | 2.6                                    | 2                 | 0.4                                    |
| 1947       | 89               | 16.1                                   | 13                | 2.4                                    |
| 1948       | 35               | 6.2                                    | 5                 | 0.9                                    |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug.  | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|-------|-------|------|------|------|
| 1936-1940* | 0    | .2   | 0    | .4   | 1.4 | 1.8  | 1.0  | 7.4   | 14.8  | 3.0  | 1.2  | .4   |
| 1941-1945* | 1.6  | 1.0  | .8   | .8   | 2.6 | 4.0  | 63.4 | 154.2 | 8.8   | 3.2  | 1.4  | .8   |
| 1946       | 1    | 0    | 0    | 0    | 0   | 0    | 0    | 6     | 3     | 2    | 2    | 0    |
| 1947       | 0    | 0    | 0    | 0    | 0   | 0    | 0    | 44    | 32    | 7    | 4    | 2    |
| 1948       | 1    | 3    | 0    | 0    | 1   | 1    | 2    | 16    | 5     | 3    | 3    | 0    |

\* 5-year average



GONORRHEA

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 504              | 78.4                                   | 2.6               | .4                                     |
| 1941-1945* | 403              | 73.1                                   | -                 | 0                                      |
| 1946       | 556              | 103.7                                  | -                 | 0                                      |
| 1947       | 299              | 54.2                                   | 1                 | 0.2                                    |
| 1948       | 205              | 36.6                                   | --                | 0                                      |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1936-1940* | 37.4 | 40.0 | 39.8 | 44.8 | 41.4 | 40.6 | 40.0 | 39.0 | 46.4  | 44.8 | 45.6 | 44.4 |
| 1941-1945* | 31.0 | 23.4 | 32.8 | 26.4 | 30.0 | 32.0 | 41.6 | 44.0 | 40.2  | 35.8 | 36.6 | 28.8 |
| 1946       | 96   | 48   | 70   | 35   | 38   | 64   | 51   | 80   | 42    | 29   | 29   | 26   |
| 1947       | 23   | 30   | 21   | 41   | 29   | 21   | 16   | 23   | 18    | 19   | 19   | 39   |
| 1948       | 9    | 10   | 15   | 13   | 9    | 22   | 12   | 18   | 33    | 25   | 14   | 25   |

INFLUENZA AND PNEUMONIA

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 1609             | 250.2                                  | 480.6             | 74.7                                   |
| 1941-1945* | 4364             | 791.9                                  | 275.6             | 50.0                                   |
| 1946       | 1419             | 265.0                                  | 189               | 35.2                                   |
| 1947       | 1421             | 257.4                                  | 239               | 43.3                                   |
| 1948       | 972              | 173.6                                  | 160               | 28.6                                   |

Number of Cases Reported by Months

|            | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1936-1940* | 315.2 | 136.0 | 467.6 | 171.2 | 76.0  | 72.0  | 19.0 | 19.0  | 30.0  | 35.6  | 74.0  | 193.2 |
| 1941-1945* | 621.4 | 406.2 | 303.6 | 283.2 | 275.6 | 133.2 | 88.2 | 102.6 | 85.8  | 126.0 | 150.8 | 178.0 |
| 1946       | 257   | 140   | 228   | 117   | 102   | 85    | 63   | 65    | 49    | 107   | 92    | 114   |
| 1947       | 227   | 147   | 462   | 140   | 83    | 40    | 20   | 13    | 30    | 65    | 51    | 143   |
| 1948       | 28    | 77    | 133   | 92    | 141   | 56    | 83   | 37    | 75    | 49    | 64    | 137   |

\* 5-year average



MEASLES

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 1663             | 258.7                                  | 9                 | 1.4                                    |
| 1941-1945* | 2427             | 440.5                                  | 12.6              | 2.3                                    |
| 1946       | 239              | 44.6                                   | -                 | 0.2                                    |
| 1947       | 1644             | 297.8                                  | 2                 | 0.4                                    |
| 1948       | 1538             | 274.6                                  | 7                 | 1.2                                    |

Number of Cases Reported by Months

|            | Jan.  | Feb.  | Mar.  | Apr.  | May   | June | July | Aug. | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
| 1936-1940* | 266.8 | 220.8 | 110.2 | 185.0 | 134.2 | 65.6 | 45.0 | 10.6 | 19.8  | 92.0  | 224.2 | 289.0 |
| 1941-1945* | 396.0 | 301.8 | 317.6 | 218.4 | 243.4 | 74.6 | 85.0 | 28.6 | 30.0  | 211.0 | 211.8 | 309.2 |
| 1946       | 4     | 6     | 58    | 30    | 42    | 38   | 31   | 5    | 8     | 4     | 10    | 3     |
| 1947       | 9     | 10    | 55    | 30    | 393   | 183  | 78   | 40   | 33    | 76    | 181   | 556   |
| 1948       | 208   | 209   | 121   | 84    | 154   | 187  | 73   | 25   | 38    | 115   | 102   | 222   |

MENINGITIS

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 15               | 2.4                                    | 6.8               | 1.1                                    |
| 1941-1945* | 25               | 4.6                                    | 5.4               | 1.0                                    |
| 1946       | 20               | 3.7                                    | 3                 | 0.6                                    |
| 1947       | 15               | 2.7                                    | 7                 | 1.3                                    |
| 1948       | 22               | 3.9                                    | 7                 | 1.2                                    |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | 1.4  | 2.4  | 1.6  | 1.8  | 1   | .6   | 1.8  | 1.2  | 1     | 1.6  | .2   | .8   |
| 1941-1945* | 3.4  | 3.0  | 2.6  | 3.4  | 2.6 | 1.0  | 2.6  | 1.2  | .8    | 1.2  | 1.4  | 2.0  |
| 1946       | 3    | 4    | 3    | 0    | 1   | 2    | 1    | 1    | 0     | 2    | 0    | 3    |
| 1947       | 1    | 1    | 2    | 3    | 3   | 0    | 1    | 1    | 0     | 0    | 0    | 3    |
| 1948       | 4    | 1    | 1    | 0    | 5   | 0    | 5    | 0    | 2     | 1    | 3    | 0    |

\* 5 - year average



POLIOMYELITIS

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 18               | 2.8                                    | 1.2               | .2                                     |
| 1941-1945* | 26               | 4.8                                    | 2.2               | .4                                     |
| 1946       | 492              | 91.7                                   | 28                | 5.2                                    |
| 1947       | 84               | 15.2                                   | 2                 | .4                                     |
| 1948       | 130              | 23.2                                   | 8                 | 1.4                                    |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | .4   | .6   | .4   | 0    | 0   | .2   | 1.8  | 2.6  | 5.8   | 5.2  | 2.2  | 1.0  |
| 1941-1945* | 1.2  | .4   | .4   | .2   | 0   | .4   | 1.6  | 7.0  | 7.0   | 4.4  | 1.8  | 1.8  |
| 1946       | 0    | 1    | 0    | 1    | 0   | 2    | 61   | 221  | 129   | 50   | 17   | 10   |
| 1947       | 0    | 4    | 6    | 3    | 4   | 4    | 16   | 31   | 6     | 3    | 3    | 4    |
| 1948       | 1    | 0    | 0    | 0    | 2   | 1    | 6    | 49   | 38    | 19   | 7    | 7    |

SCARLET FEVER

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 1165             | 181.1                                  | 14.4              | 2.2                                    |
| 1941-1945* | 629              | 114.2                                  | 2                 | .4                                     |
| 1946       | 303              | 56.5                                   | -                 | 0                                      |
| 1947       | 335              | 60.7                                   | 1                 | 0.2                                    |
| 1948       | 265              | 47.3                                   | 3                 | 0.5                                    |

Number of Cases Reported by Months

|            | Jan.  | Feb.  | Mar.  | Apr.  | May  | June | July | Aug. | Sept. | Oct. | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|------|------|------|------|-------|------|-------|-------|
| 1936-1940* | 173.4 | 191.2 | 137   | 103.4 | 98.4 | 51.6 | 23.0 | 15.8 | 30.8  | 86.6 | 123.4 | 130.0 |
| 1941-1945* | 79.2  | 95.8  | 114.8 | 87.4  | 54.2 | 27.4 | 12.4 | 9.4  | 19.0  | 30.2 | 46.4  | 51.2  |
| 1946       | 41    | 28    | 71    | 41    | 34   | 10   | 7    | 4    | 2     | 21   | 19    | 25    |
| 1947       | 35    | 51    | 65    | 16    | 22   | 13   | 12   | 8    | 22    | 20   | 30    | 41    |
| 1948       | 20    | 24    | 28    | 17    | 19   | 4    | 7    | 7    | 15    | 19   | 40    | 65    |

\* 5-year average



# SMALLPOX

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 327              | 50.8                                   | 1                 | 0.0                                    |
| 1941-1945* | 7                | 1.3                                    | -                 | 0                                      |
| 1946       | 1                | .2                                     | -                 | 0                                      |
| 1947       | 4                | .7                                     | -                 | 0                                      |
| 1948       | 3                | .5                                     | -                 | 0                                      |

## Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1936-1940* | 60.4 | 39.4 | 22.8 | 36.8 | 32.2 | 26.0 | 18.2 | 6.4  | 8.4   | 25.9 | 27.8 | 22.4 |
| 1941-1945* | .6   | 0    | .6   | .8   | 1.2  | 1    | .8   | .2   | .2    | .4   | .4   | 1.2  |
| 1946       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0    | 1    | 0    |
| 1947       | 0    | 0    | 0    | 2    | 0    | 1    | 0    | 0    | 0     | 1    | 0    | 0    |
| 1948       | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 0    | 0     | 0    | 0    | 1    |

# SYPHILIS

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 355              | 55.3                                   | 23                | 3.6                                    |
| 1941-1945* | 304              | 55.1                                   | 25.4              | 4.6                                    |
| 1946       | 271              | 50.5                                   | 27                | 5.0                                    |
| 1947       | 318              | 57.6                                   | 16                | 2.9                                    |
| 1948       | 307              | 54.8                                   | 17                | 3.0                                    |

## Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1936-1940* | 28.4 | 26.0 | 32.4 | 28.6 | 30.0 | 32.6 | 28.8 | 28.6 | 26.8  | 30.8 | 36.4 | 31.2 |
| 1941-1945* | 24.4 | 24.6 | 27.6 | 21.4 | 30.8 | 24.2 | 21.8 | 34.2 | 23.4  | 24.0 | 27.0 | 20.0 |
| 1946       | 35   | 40   | 29   | 6    | 15   | 25   | 31   | 47   | 36    | 18   | 17   | 19   |
| 1947       | 29   | 45   | 12   | 35   | 29   | 35   | 13   | 27   | 19    | 28   | 23   | 23   |
| 1948       | 33   | 30   | 36   | 37   | 26   | 21   | 16   | 24   | 28    | 19   | 12   | 25   |

\* 5-year average



# TUBERCULOSIS

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 283              | 44.0                                   | 151.2             | 23.5                                   |
| 1941-1945* | 359              | 65.2                                   | 112.6             | 20.4                                   |
| 1946       | 197              | 36.7                                   | 86                | 16.0                                   |
| 1947       | 295              | 53.4                                   | 83                | 15.0                                   |
| 1948       | 346              | 61.8                                   | 59                | 10.5                                   |

## Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1936-1940* | 24.4 | 22.8 | 26.2 | 24.8 | 22.0 | 23.0 | 24.0 | 22.2 | 24.8  | 23.2 | 23.4 | 22.4 |
| 1941-1945* | 22.2 | 29.4 | 26.4 | 37.6 | 32.6 | 25.6 | 48.6 | 40.8 | 23.6  | 22.2 | 25.2 | 25.0 |
| 1946       | 15   | 10   | 14   | 11   | 25   | 22   | 25   | 25   | 10    | 17   | 6    | 17   |
| 1947       | 14   | 22   | 19   | 27   | 21   | 27   | 28   | 21   | 40    | 29   | 13   | 34   |
| 1948       | 29   | 28   | 28   | 33   | 32   | 26   | 36   | 36   | 22    | 22   | 20   | 34   |

# TYPHOID AND PARATYPHOID

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 40               | 6.3                                    | 3.6               | .6                                     |
| 1941-1945* | 16               | 2.9                                    | .8                | .1                                     |
| 1946       | 19               | 3.5                                    | -                 | 0                                      |
| 1947       | 8                | 1.4                                    | 3                 | 0.5                                    |
| 1948       | 14               | 2.5                                    | -                 | 0                                      |

## Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | 1.8  | 1.4  | 1.4  | 3.6  | 3.8 | 3.0  | 2.4  | 3.8  | 4.6   | 8.8  | 2.8  | 3.0  |
| 1941-1945* | .8   | 1.2  | .6   | 1.2  | 2.4 | 1.6  | 1.6  | 2.4  | 1.6   | 2.0  | .2   | .6   |
| 1946       | 0    | 0    | 1    | 2    | 3   | 4    | 2    | 0    | 2     | 2    | 0    | 3    |
| 1947       | 1    | 1    | 2    | 0    | 0   | 0    | 0    | 2    | 2     | 0    | 0    | 0    |
| 1948       | 0    | 0    | 0    | 2    | 2   | 3    | 1    | 1    | 3     | 2    | 0    | 0    |

\* 5-year average



UNDULANT FEVER

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 4                | .7                                     | -                 | 0                                      |
| 1941-1945* | 15               | 2.8                                    | .2                | 0.0                                    |
| 1946       | 15               | 2.8                                    | 1                 | 0.2                                    |
| 1947       | 6                | 1.1                                    | 2                 | 0.4                                    |
| 1948       | 5                | .9                                     | -                 | 0                                      |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1936-1940* | .2   | .4   | .4   | 0    | .2  | .2   | .2   | .8   | .6    | .6   | .2   | .6   |
| 1941-1945* | .8   | 1.6  | .4   | 2.2  | .6  | 1.6  | .6   | 2.0  | 1.2   | 1.6  | 1.0  | 1.6  |
| 1946       | 0    | 1    | 5    | 2    | 0   | 1    | 1    | 1    | 0     | 2    | 1    | 1    |
| 1947       | 1    | 0    | 0    | 0    | 1   | 0    | 1    | 1    | 0     | 1    | 0    | 1    |
| 1948       | 0    | 0    | 0    | 0    | 0   | 0    | 2    | 1    | 0     | 0    | 0    | 2    |

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WHOOPING COUGH

|            | <u>No. Cases</u> | <u>Rate per 100,000<br/>Population</u> | <u>No. Deaths</u> | <u>Rate per 100,000<br/>Population</u> |
|------------|------------------|--|-------------------|--|
| 1936-1940* | 759              | 118.1                                  | 21.4              | 3.3                                    |
| 1941-1945* | 553              | 100.3                                  | 9                 | 1.6                                    |
| 1946       | 40               | 7.5                                    | -                 | -                                      |
| 1947       | 415              | 75.2                                   | 8                 | 1.4                                    |
| 1948       | 312              | 55.7                                   | 2                 | 0.4                                    |

Number of Cases Reported by Months

|            | Jan. | Feb. | Mar. | Apr. | May  | June | July  | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| 1936-1940* | 67.8 | 49.4 | 42.2 | 42.8 | 36.0 | 46.8 | 107.8 | 87.8 | 89.2  | 77.6 | 62.6 | 49.4 |
| 1941-1945* | 51.6 | 40.4 | 41.8 | 39.2 | 46.6 | 31.0 | 60.6  | 69.0 | 64.8  | 40.4 | 35.2 | 32.2 |
| 1946       | 4    | 2    | 1    | 3    | 3    | 5    | 3     | 3    | 9     | 2    | 3    | 2    |
| 1947       | 4    | 2    | 2    | 3    | 103  | 10   | 28    | 36   | 14    | 82   | 69   | 62   |
| 1948       | 45   | 83   | 48   | 16   | 13   | 15   | 21    | 15   | 9     | 3    | 31   | 13   |

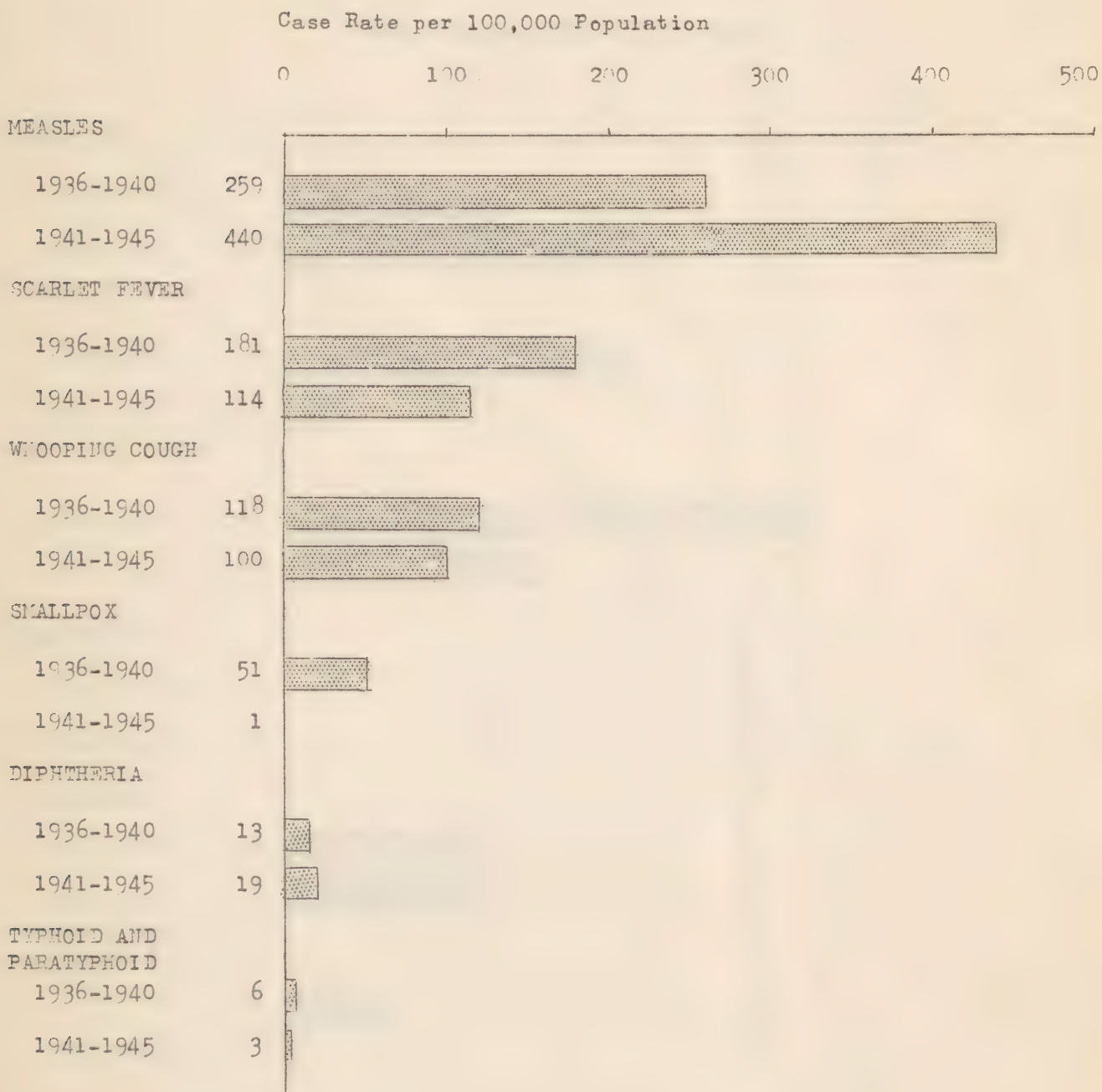
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\* 5-year average



AVERAGE YEARLY CASE RATES FOR COMMUNICABLE DISEASES  
NORTH DAKOTA, 1936-1940, 1941-1945

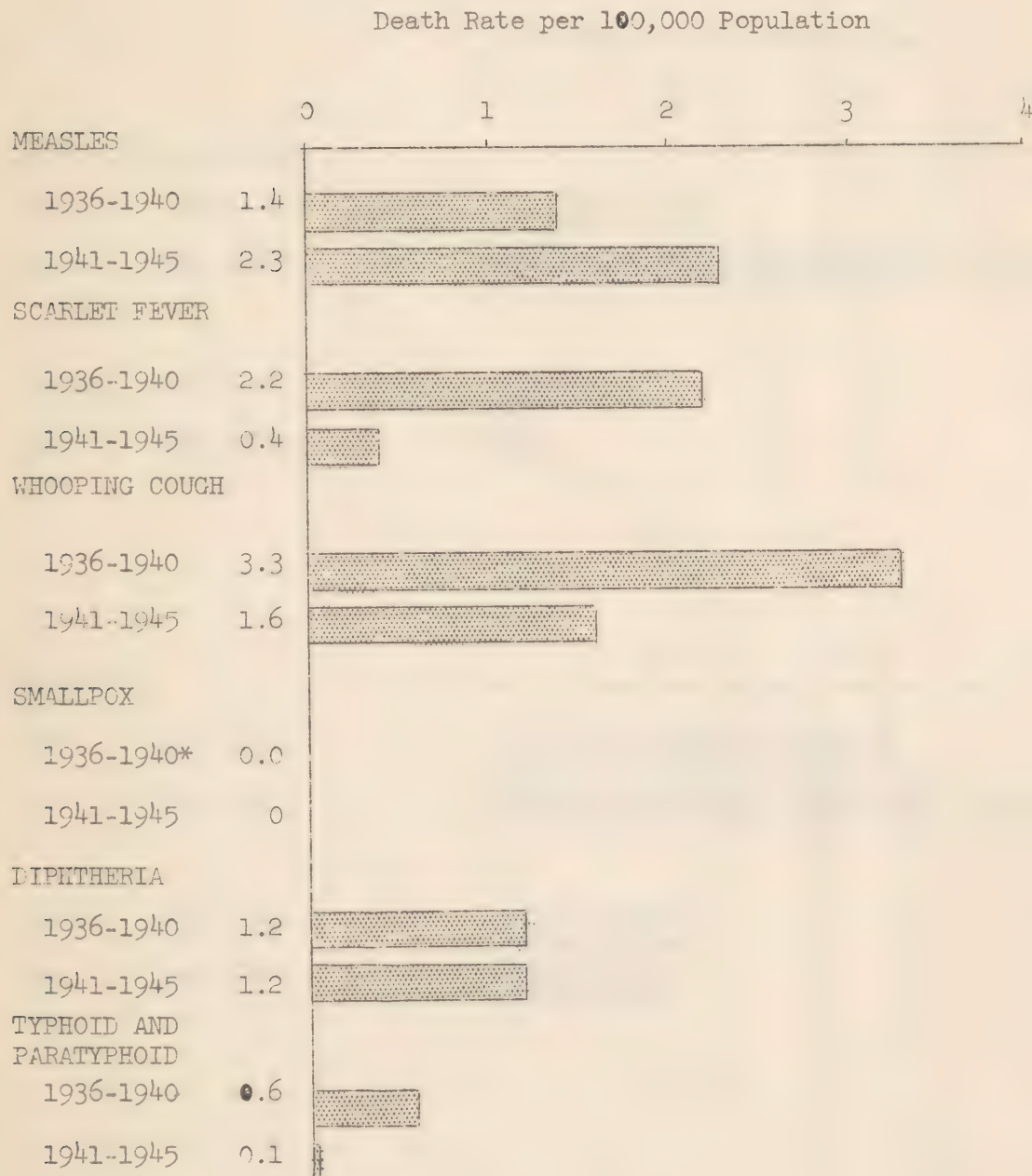
A comparison of communicable disease cases reported during two five year periods shows an increase in cases of measles and diphtheria, a decrease in scarlet fever, whooping cough, typhoid and paratyphoid, and a very notable reduction in smallpox cases.





AVERAGE YEARLY DEATH RATES FOR COMMUNICABLE  
DISEASES, NORTH DAKOTA, 1936-1940, 1941-1945

The death rates from communicable diseases may be compared with the previous chart which shows corresponding case rates. For most diseases, the decline in deaths has been greater than the decline in cases.

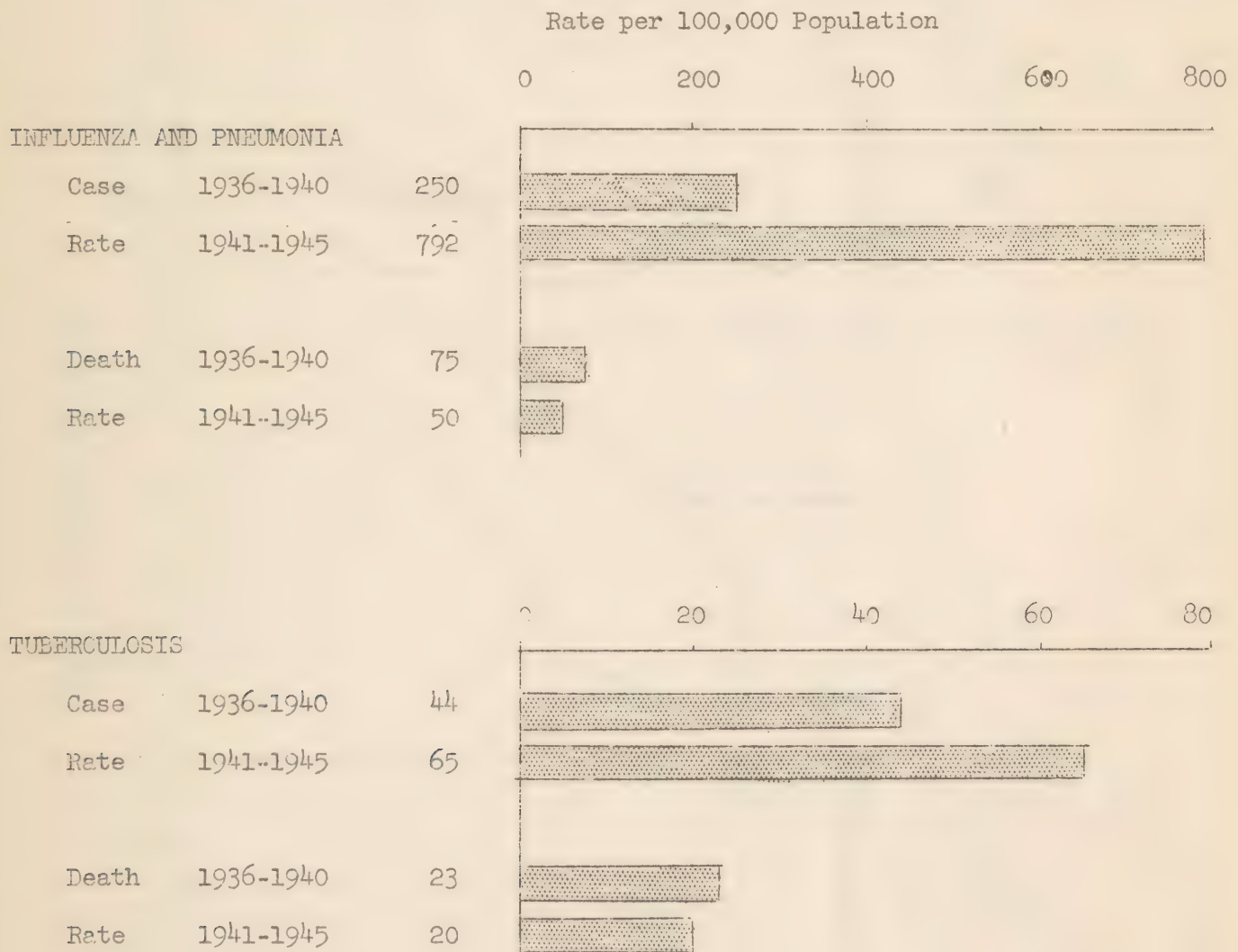


\* One death, rate less than 0.1



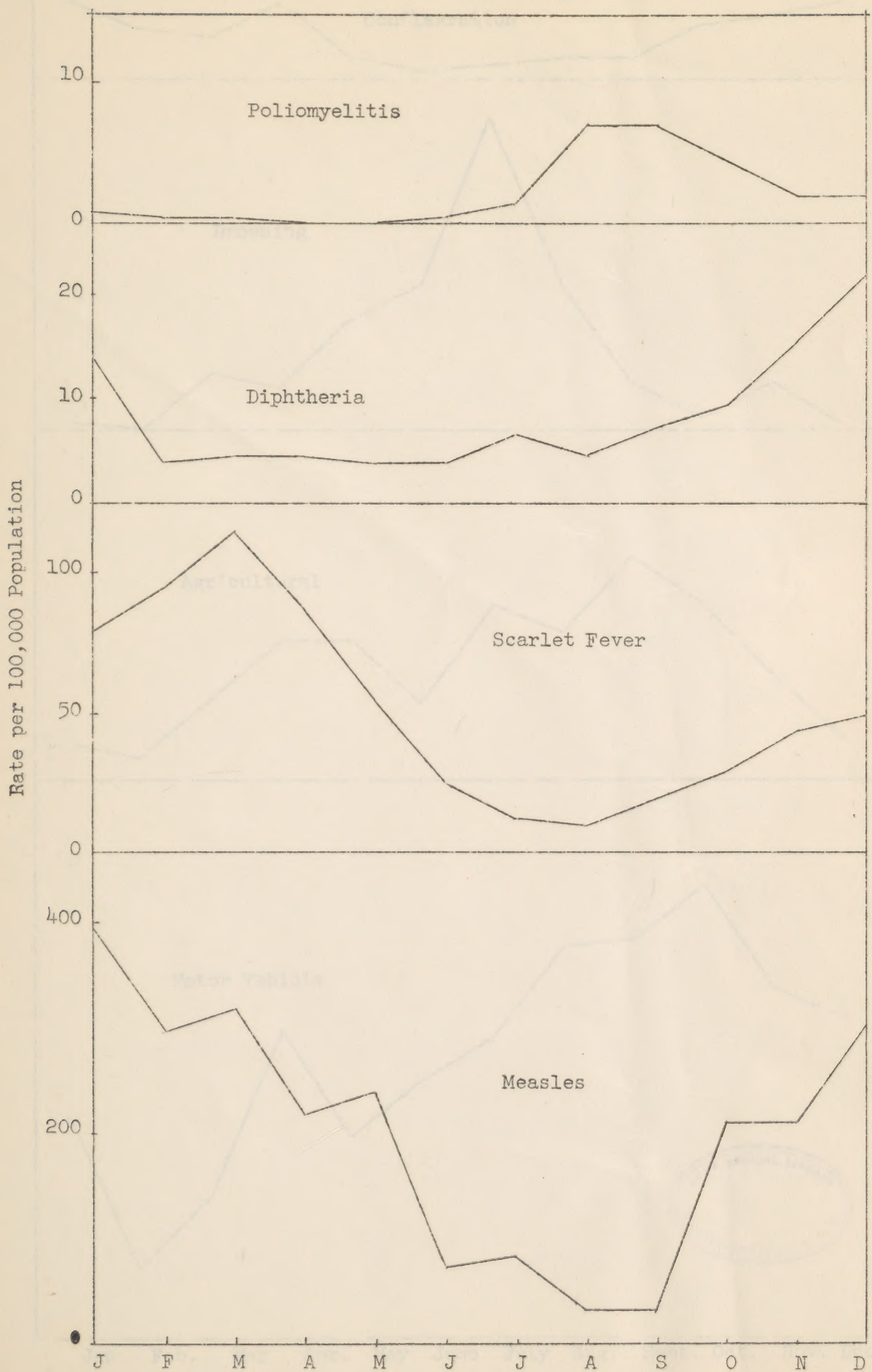
AVERAGE YEARLY CASE AND DEATH RATES FOR COMMUNICABLE  
DISEASES, NORTH DAKOTA, 1936-1940, 1941-1945

A comparison of the two five year periods shows that, while there were more than twice as many cases of influenza and pneumonia reported in the later period, there were fewer deaths. This is probably due to the more effective treatment with new drugs during recent years. There were also more cases of tuberculosis reported during the later period, but fewer deaths.





SEASONAL VARIATION IN COMMUNICABLE DISEASES  
AVERAGE NUMBER OF CASES REPORTED, 1941-1945



Seasonal Variation in Accidental Deaths

